

## DEAD LOAD DEFLECTION TABLE FOR GIRDERS

ORDINATES	SPAN B																				
	GIRDER 1																				
TWENTIETH POINTS	BRG.	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	BRG.
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.002	0.004	0.010	0.017	0.026	0.036	0.045	0.053	0.060	0.067	0.070	0.073	0.071	0.068	0.060	0.053	0.040	0.028	0.014	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.006	0.012	0.030	0.049	0.078	0.106	0.135	0.165	0.188	0.210	0.220	0.229	0.222	0.215	0.192	0.168	0.130	0.093	0.046	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.001	0.003	0.005	0.008	0.012	0.016	0.020	0.023	0.026	0.028	0.029	0.030	0.029	0.028	0.025	0.022	0.017	0.012	0.006	0.000
DEFLECTION DUE TO WEIGHT OF SIDEWALK	0.000	0.001	0.002	0.003	0.004	0.006	0.008	0.010	0.012	0.013	0.014	0.015	0.015	0.014	0.013	0.012	0.010	0.008	0.006	0.003	0.000
TOTAL DL DEFLECTION	0.000	0.010	0.020	0.049	0.078	0.122	0.165	0.209	0.253	0.286	0.319	0.333	0.348	0.336	0.324	0.288	0.253	0.195	0.138	0.069	0.000
REQUIRED CAMBER	0"	1/8"	1/4"	9/16"	15/16"	1 7/16"	2"	2 1/2"	3 1/16"	3 7/16"	3 13/16"	4"	4 3/16"	4"	3 7/8"	3 7/16"	3"	2 3/8"	1 11/16"	13/16"	0"

ORDINATES	SPAN B																				
	GIRDER 2																				
TWENTIETH POINTS	BRG.	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	BRG.
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.003	0.007	0.015	0.023	0.031	0.040	0.050	0.060	0.067	0.073	0.076	0.078	0.075	0.073	0.064	0.056	0.043	0.031	0.015	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.010	0.020	0.043	0.066	0.097	0.128	0.159	0.190	0.213	0.236	0.244	0.253	0.244	0.235	0.209	0.183	0.142	0.101	0.050	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.002	0.003	0.006	0.009	0.013	0.017	0.020	0.024	0.027	0.029	0.030	0.031	0.030	0.028	0.025	0.022	0.017	0.012	0.006	0.000
DEFLECTION DUE TO WEIGHT OF SIDEWALK	0.000	0.001	0.002	0.003	0.004	0.006	0.008	0.010	0.012	0.013	0.014	0.015	0.015	0.014	0.013	0.012	0.011	0.008	0.006	0.003	0.000
TOTAL DL DEFLECTION	0.000	0.016	0.032	0.067	0.102	0.147	0.193	0.239	0.286	0.319	0.353	0.365	0.377	0.363	0.349	0.310	0.271	0.210	0.149	0.075	0.000
REQUIRED CAMBER	0"	3/16"	3/8"	13/16"	1 1/4"	1 3/4"	2 5/16"	2 7/8"	3 7/16"	3 13/16"	4 1/4"	4 3/8"	4 1/2"	4 3/8"	4 3/16"	3 3/4"	3 1/4"	2 1/2"	1 13/16"	7/8"	0"

ORDINATES	SPAN B																				
	GIRDER 3																				
TWENTIETH POINTS	BRG.	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	BRG.
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.005	0.009	0.018	0.027	0.037	0.048	0.058	0.068	0.075	0.082	0.083	0.085	0.082	0.079	0.070	0.060	0.047	0.033	0.017	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.014	0.028	0.055	0.083	0.116	0.150	0.183	0.215	0.238	0.262	0.269	0.277	0.265	0.254	0.225	0.197	0.152	0.108	0.054	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.002	0.003	0.007	0.010	0.014	0.018	0.021	0.025	0.028	0.030	0.031	0.032	0.030	0.029	0.026	0.023	0.018	0.013	0.006	0.000
DEFLECTION DUE TO WEIGHT OF SIDEWALK	0.000	0.001	0.002	0.003	0.005	0.007	0.008	0.010	0.013	0.014	0.015	0.015	0.016	0.015	0.014	0.013	0.011	0.008	0.006	0.003	0.000
TOTAL DL DEFLECTION	0.000	0.021	0.043	0.083	0.124	0.174	0.223	0.272	0.321	0.355	0.388	0.399	0.409	0.393	0.377	0.333	0.290	0.225	0.159	0.080	0.000
REQUIRED CAMBER	0"	1/4"	1/2"	1"	1 1/2"	2 1/16"	2 11/16"	3 1/4"	3 7/8"	4 1/4"	4 11/16"	4 13/16"	4 15/16"	4 11/16"	4 1/2"	4"	3 1/2"	2 11/16"	1 15/16"	15/16"	0"

ORDINATES	SPAN B																				
	GIRDER 4																				
TWENTIETH POINTS	BRG.	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	BRG.
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.006	0.012	0.022	0.032	0.043	0.055	0.066	0.078	0.084	0.091	0.093	0.094	0.090	0.087	0.076	0.065	0.050	0.036	0.018	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.019	0.038	0.069	0.100	0.137	0.174	0.209	0.244	0.268	0.291	0.298	0.304	0.290	0.277	0.244	0.211	0.163	0.114	0.057	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.002	0.003	0.007	0.011	0.015	0.019	0.023	0.028	0.030	0.033	0.033	0.034	0.033	0.032	0.028	0.024	0.019	0.013	0.007	0.000
DEFLECTION DUE TO WEIGHT OF SIDEWALK	0.000	0.001	0.002	0.003	0.005	0.007	0.009	0.011	0.013	0.015	0.016	0.016	0.017	0.016	0.015	0.013	0.012	0.009	0.007	0.003	0.000
TOTAL DL DEFLECTION	0.000	0.028	0.055	0.101	0.148	0.203	0.258	0.310	0.363	0.396	0.430	0.440	0.449	0.430	0.410	0.361	0.312	0.241	0.170	0.085	0.000
REQUIRED CAMBER	0"	5/16"	11/16"	1 3/16"	1 3/4"	2 7/16"	3 1/16"	3 3/4"	4 3/8"	4 3/4"	5 3/16"	5 1/4"	5 3/8"	5 1/8"	4 15/16"	4 5/16"	3 3/4"	2 7/8"	2 1/16"	1"	0"

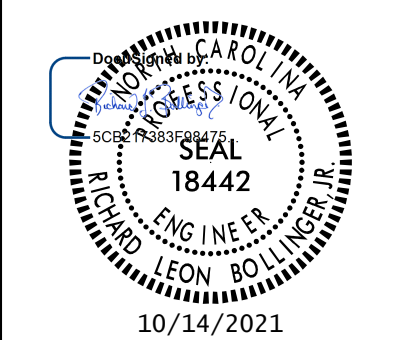
\* INCLUDES SLAB, BUILD-UP AND STAY-IN-PLACE METAL FORMS.

**CAMBER NOTES:**

1. ALL DEFLECTION VALUES SHOWN ARE IN FEET (DECIMAL FORM), EXCEPT FOR "REQUIRED CAMBER" GIVEN IN INCHES (FRACTION FORM).
2. NO VERTICAL CURVE ORDINATE ON BRIDGE.
3. NO SUPERELEVATION ORDINATE ON BRIDGE.

PROJECT NO. U-2579AB  
FORSYTH COUNTY  
 STATION: 22+26.35 -Y1B-

SHEET 2 OF 2

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